Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Dasarahalli Division

Name of work: Drilling of Bore well in ward no 14 in Dasarahalli Sub Div

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	BOREWELL								
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)								
		2				2.00	Rmtr	1938.46	3,876.92
2	Sinking Borewell of 165mm dia clear, using fast rig in all strata including over-burden upto 20mts. Fixing of casing Pipes, collars and cap with necessary cutting and threading including, transportation of Rig and supporting vehicle, crew charge and cost of consumbles, etc, complete including yield testing at the final depth with a minimum woring of compressor for one hour. (excluding cost of casing pipes, collars and cap, etc.)								
	a) 0.00 to50.00 Mtr	2	50.00			100.00	Rmtr	315.18	31,518.00
	b) 50.00 to 100.00 Mtr	2	50.00			100.00	Rmtr	412.00	41,200.00
	c) 100.00 to 150.00 Mtr	2	50.00			100.00	Rmtr	458.35	45,835.00
	d) 150.00 to 200.00 Mtr	2	50.00			100.00	Rmtr	484.10	48,410.00
	e) 200.00 to 250.00 Mtr	2	50.00			100.00	Rmtr	560.32	56,032.00
	f) 250.00 to 300.00 mtr	2	50.00			100.00	Rmtr	600.49	60,049.00
3	Supply of ISI Mark 175mm nominal Bore, Plain end steel casing Pipe-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty. Page No.ii, I.No.53 PRE Bang SR 2012-12								
		2	40.00			80.00	Rmtr	1325.00	106000.00
	a) Above 20mtrs and upto 30mtrs.@15%	2	10.00			20.00	Rmtr	45.90	918.00
	b) Above 30mtrs@30%	2	20.00			40.00	Rmtr	91.80	3672.00
4	175mm M.S. B-Class Casing Collar (P.No.ii,I.No.55)								
		2	5			10.00	Nos	150.00	1500.0
5	175mm dia Casing Cap (P.No.ii,I.No.54)								
		2	1			2.00	Nos	100.00	200.0
6	Supply and delivery at site brand new submesible PUMPSET suitable for bore well of 150 mm dia and having declared duty conditions as detailed below and satisfying performances characteristics for pump and motor as declared by bureau of Indian standards. The pump should confirm to IS:8034-1970 (with all its latest amendments) and should bear the ISI mark 12.5 HP 25 stage (CRI Pumps) SR 2016-17 page xxxxII sl no 27)								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	H=150m dish 150 LPM	2				2.00	Set	68472.00	136944.00
7	Supply and Delivery of Galvanized Mild steel Heavy Class (C-Class) conforming to IS 1239-1979 PART-I/1979 with lastest amendments with ISI mark (one end fitted with ISI mark heavy duty collar and other end fitted with Protective cover) 50 mm dia (PRED SR Gulbarga 12-13)								
	50mm dia G.I Pipe with heavy duty	2	290.00			580.00	Mtr	519.30	301194.00
8	submersible Cable: Supply and Delivery of brand new best make PVC insulated cable of flat 3core (sheathed) of nominal cross sectional area containing to IS 894-1997 with latest amendments (as per SPD) 4 Square mm								
		2	580.00			1160.00	Mtr	105.60	122496.00
9	50 mm dia GI Collar Heavy duty								
		2	48.00			96.00	Mtr	130.00	12480.00
10	Meter and Panel Board: Supply and Delivery of Meter and Panel Board: Meter Board unit one number of MS Box of size 300x120 mm size fabricated out of 2mm thick sheet metal with sealable door arrangement for munting the CTS (if any) cutouts 3phase dia 4 wire energy meter and cable box complete. A transparent glass piece should be provided where the energy meter reading could be read. Panel Board: One number of cubicle type of control panel board to operate on 50c/400/400v Upto 10 to 20 HP								
		2				2.00	Nos	11000.00	22000.00
11	50mm dia G.I.N.R. Valve								
		2				2.00	Nos	856.00	1712.00
12	Erection & Commissioning of work of pumpset including aligning and balancing with all necessary erection of materials and labour including supply and erection of two pair of supporting clamps, one borewell cap, cable clips and water tight gland cable protectors, bolts nuts valves and gauges etc, all job including fixing sluice valve, non return valve etc, and connecting delivery side of pumpset to rising main etc, complete.								
		2				2.00	Nos	850.00	1700.00
13	Power Capacitor: Supply and Delivery of brand new best make capacitor conforming to IS:2834-1986 with latest amendments with ISI mark of required capacity tested and approved by KPTCL anthorities and erection, electrification and commissioning of the same at the location of the respective pumpsets. Supply & Delivery of best Indigenous brand new MCB (Miniature Circutit Breaker) of required capacity as per IS:8828-1978 and its latest amendment with ISI mark 6/10/20/25/40 amps with sealble box with MCB 3 KVAR								
		2				2.00	Mtr	460.00	920.00
14	Supplyin mmdia 2mm 2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive pase etc., and running before cocreting the slab. The conduit should be tiled to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosuers. Run with 18SWGGI fish wire wherever necessary (P-2,1-1)								
	b)25mm dia 2mm thick	2	10.00			20.00	Nos	44.28	885.60
15	Supplying of TPST with rewirable porcelain channels in SM enclosure. (P-30. 1-1)								
	b)32amps	2				2.00	Nos	1468.80	2937.60
16	Supplying and fixing polished wood board made of not less than 15 mm thick plan on both sides with planks made out of more than two pieces and fixing the same to the wall using wooden plugs, screws etc.,(p-30 1-2)								
	20X20X2.5	2	2			4.00	Nos	307.80	1231.20
17	Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multistrand 2x1.5 Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box. The other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet (P-3. 1-8)								

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	(a) Short Point upto 3Mtr form tapping point to outet via switch	2	1.00			2.00	Rmtr	189.00	378.00
	© Long Point above 6 Mtr. Upto 10 Mtr. From tapping point to out let via switch	2	1.00			2.00	Rmtr	397.44	794.88
18	Supplying 6 A flush/projected type socket and a 6Amps flush/projected type SP switch either surface/flush mounting in a existing gang box or a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required (P-6., 1-12)								
	(b)6Amps3/5 Way	2				2.00	Nos	114.48	228.96
19	Wiring for lighting /power circuit using one of PVC insulated 1100V grade multis and Copper conductor single core cable in open or consealed system of wiring (P-9, 1-20)								
	Group "B"© 2.5Sq.mm	2	25.00			50.00	Rmtr	22.65	1,132.50
20	Supplying and fixing PBBC backelite straight or slant batten holder &wiring 60w/230 Volts lamps (P-13, 1-2)								
	Group B	2	3.00			6.00	Rmtr	60.48	362.88
21	Supplying and fixing of LED type panel borad indicating lamp with required colour suitable for 220 v A.C. 50 Hz 12/24v D.C (P-38, 1-35)								
		2	3.00			6.00	Nos	464.40	2,786.40
22	Supplying of LT UG cable having aluminium conductor PVC insulated. Sheathed. Galvanished. Steel wire/steel tape armoured cable with PVC outer sheathing 1.1KV class (conforming to IS 1554) Class-A (P-67, 1-10)								
	e)4.0 core 16Sqmm	2	12.00			24.00	Rmtr	162.00	3,888.00
23	Lobour charges for laying of 1.1KV class UG cable when supplied departmentally/ agency in existing trench GI pipe/stoneware pipe/on wall/on pole as required (P-68, 1-11)								
	a)10Sqmm to 16Sqmm	2	12.00			24.00	Rmtr	8.64	207.36
24	Digging of trench of 0.6mtrs deepx0.5 mtrs wide refilling the required gorund level and consolidating etc., complete (P-68, 1-12)								
	a)in soil(ordinary)	2	8.00			16.00	Rmtr	43.20	691.20
25	Supplying and fixing of class 'A' GI pipe on pole /wall/drain crossing with necessary clamping arrangement for UG cable of 1.1KV class(P-69, 1-15)								
	a)65mm(upto 150Sqmm)	2	6.00			12.00	Rmtr	259.20	3,110.40
26	Supplying and fixing of heay duty cable glands suitable for UG cable of 1.1KV class metal only (P-69, 1-17)								
	a)25mm dia	2				2.00	Nos	71.28	142.56
27	Supplying and fixing miniature circuit breakers on existing MCB disitribution boards using necessary fixing materials and wiring complete as required (P-34, 1-13)								
	5-32 amps TPN	2				2.00	Nos	1085.40	1085.40
28	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete (P-30, 1-3) a) 32Amps								
		2	5			10.00	Nos	108.00	540.00
29	Supplying and fixing L.T. cast lorn pot heads suitable for 1.1. KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.,(P-69, 1-16) a) 16Sqmm								
		2				2.00	Nos	280.60	280.60

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
30	Supplying, fixing, wiring, earth electrode for gounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit.. The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checkunts etc., the pipe shall have 16 through holes of 122mm dia (P-66, 1-7)								
		2				2.00	Nos	2106.6	2,106.00
31	Supplying decorative horizontal type street light fluorescent fitting weather and water proof complete with low loss open construction copper wound ferromagnetic ballast,starter,locking type brass contact holders with 1 No. of 4 feet 40 watts fluorescent tube completely wired for use on 230/250 volts. 50cycles AC supply with opal reeded Perspex cover at bottom complete fitting (P-17, 1-6)								
		2				2.00	Nos	1544.4	1,544.40
32	Supplying & fixing mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluroscent tube street light fitting of all capacities of GI or CI or rail or RCC pole/ wall using suitable clamps. bolts. and nuts and wiring using suitable capacity wires complete(P-26, 1-1)								
		2				2.00	Nos	658.80	658.80
33	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications specification. No. KBS 2.1(b) / 2.3.5 (P-5, I-2.4, PWD SR 2016-17)								
	For pipe line	2	575.00	0.60	0.90	621.00	mtr	305.64	189802.44
34	Providing and installing at site work **P.V.C. Pipes** including cost of pipes and specials and labour,including lowering into trenches,laying true to line,level and perfect linking at joints lead proof including jointing of approved type with all labour and lift charge, handling charges with all leads,including encasing the pipe around to a depth not less than 15cms with gravel or selected earth available from the excavation etc.,complete[P.No.15 - I.No.3.4.2.a& b PRED SR 2015-16]a) 63 mm dia PVC pipes 6kg/cm.square=104*8%=112.32								
	For pipe line	2	575.00			1150.00	mtr	112.32	129168.00
35	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (P.No.6 / I.No.2.10)								
	For pipe line	2	575.00	0.60	0.90	621.00	mtr	137.16	85176.36
	Repairs & Maintenance of Borewells								
36	Repair to motor rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months (BWSSB SR 14-15, p58, i-a) - 7.5 HP								
		25				25.00	No.s	3823	95575.00
37	Labour charges for lifting of non-functioning submersible pump set along with cable and GI pipe (BWSSB SR 12-13, P-438, I-1(i))								
		25	1.00			25.00	No.s	109	2725.00

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
38	Supply and delivery at site brand new submesible PUMPSET suitable for bore well of 150 mm dia and having declared duty conditions as detailed below and satisfying performances characteristics for pump and motor as declared by bureau of Indian standards. The pump should confirm to IS:8034-1970 (with all its latest amendments) and should bear the ISI mark 12.5 HP 25 stage (CRI Pumps) SR 2016-17 page xxxxII sl no 27)								
	10 HP 20 stage	3				3.00	Set	50100.00	150300.00
	12.5 HP 24 stage	3				3.00		63400.00	190200.00
	15 HP 30 stage	2				2.00		70600.00	141200.00
39	Supply and Delivery of Galvanized Mild steel Heavy Class (C-Class) conforming to IS 1239-1979 PART-I/1979 with lastest amendments with ISI mark (one end fitted with ISI mark heavy duty collar and other end fitted with Protective cover) 50 mm dia (PRED SR Gulbarga 12-13)								
	50mm dia G.I Pipe with heavy duty	200	6.00			1200.00	Mtr	519.30	623160.00
40	submersible Cable: Supply and Delivery of brand new best make PVC insulated cable of flat 3core (sheathed) of nominal cross sectional area containing to IS 894-1997 with latest amendments (as per SPD) 4 Square mm (PRED SR Gulbarga)								
		8	600.00			4800.00	Mtr	105.90	508320.00
41	Labour charges for erection of new / repaired submersible pump set along with GI pipes (50/32mm), SM cable including transporation for 3 HP to 20 HP and for all depths (BSWWS SR 12-13, P-438, I-1(i))								
		12	200.00			2400.00	Mtr	88.00	211200.00
42	Motor base with pin (BWSSB SR 12-13, P-64, I-C11)								
		40				40.00	No.s	407.00	16280.00
43	Upper flange (BWSSB SR 12-13, P-64, I-C3)								
		50				50.00	No.s	330.00	16500.00
44	Lower housing (BWSSB SR 12-13, P-64, I-C4								
		40				40.00	No.s	539.00	21560.00
45	Studs and nuts (BWSSB SR 12-13, P-64, I-C8)								
		100				100.00	No.s	88.00	8800.00
46	Bearing (Gun metal) centrifugally cast aluminium bronze, bearing bush (BWSSB SR 12-13, P-64, I-C9								
		70				70.00	No.s	407.00	28490.00
47	Carbon housing / Thrust bearing block assembly complete with segment bearing pad / tip carbon / ferro padding (BWSSB SR 12-13, P-64, I-C7abc)								
		50				50.00	No.s	2717.00	135850.00
48	Discharge outlet (DO) bearing DO steel bush DO bearing (BWSSB SR 12-13, P-63, I-B7)								
		40				40.00	No.s	522.50	20900.00
49	Pump coupling (BSWWS SR 12-13, P-64, I-C12)								
		10				10.00	No.s	341.00	3410.00

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
50	Pump bowls (BWSSB SR 12-13, P-63, I-B1)								
		10				10.00	No.s	308.00	3080.00
51	Guide vane (BWSSB SR 12-13, P-63, I-B5)								
		20				20.00	No.s	192.50	3850.00
52	Intermediate piece (IP) with IP leaded bronze bush (BWSSB SR 12-13, P-63, I-								
		50				50.00	No.s	715.00	35750.00
53	Impeller (shell moulded with aluminium and bronze) (BWSSB SR 12-13, P-63, I-								
		10				10.00	No.s	264.00	2640.00
54	For BESCOM Deposite Charges(As per Actuals)For Meter Etc...(Should not include in Sh B)								
		2				2.00	LS	11000.00	22,000.00
								Sub Total	3669586.00
								KRIDL 9%	330263.00
								Micellaneous and Rounding off	151.00
								GRAND TOTAL	4000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-17 and Data Rates
4. The Provisions made in the estimate are Necessary and essential.

Assistant Engineer
Ward-14

Asst. Exeutive Engineer
Dasarahalli Sub-division
BBMP, Bangalore

Exeutive Engineer
Dasarahalli division
BBMP, Bangalore

ಸಂ. JE/D/AS/PR/106/16-17 ದಿನಾಂಕ : 25/3/17
ರೂ. Forty Lakhs Only

ಸಂ.CE/TI/27/A.B ದಿನಾಂಕ : 19/11/2017
ರೂ. Rs. 40.00 Lakhs Only